CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

Hayward Shoreline Marsh

East Bay Regional Park District

East Bay Dischragers Authority

Hayward, Alameda County

NPDES NO. CA0038636

ORDER NO. 83-5

CONSISTS OF

PART A dated January 1978

and

PART B dated ____________

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. INFLUENT

Station	Description
A-1	At any point in the treatment facilities headworks at which all waste tributary to the system is present and preceding any phase of treatment. This is in the POTW(s) and may be the mathematical sum.

B. EFFLUENT

Station	Description
E-1	At any point in the outfall from the treatment facilities between the point of discharge and the point at which all waste tributary to that outfall is present. (May be the same as E-1-D.) See attached map.
E-1-D	At any point in the disinfection facilities for Waste E-1, at which point adequate contact with the disinfection is assured. See attached map.
E-2	At a point where effluent from the marsh system is discharging to the Bay and is no longer under control of discharger. If two discharge points are used, so note. See attached map.

C. RECEIVING WATERS

Station	Description
C-2A C-2B C-3A C-3B	At a point in Basins 2A, 2B, 3A, and 3B satisfactory to the Executive Officer that is representative of the Basin(s).

C. RECEIVING WATERS cont.

Station	Description
C-R	At a point in Lower San Francisco Bay satisfactory to the Executive Officer that is representative of Lover San Francisco Bay where the Marsh discharges.

D. LAND OBSERVATIONS

Station	Description
L-1 through L-'n'	Located along the perimeter levee at equidistant intervals not to exceed 500 feet. (A sketch showing the locations of these stations will accompany each report.)

II. SCHEDULE OF SAMPLING, MEASUREMENT, AND ANALYSIS

The schedule of sampling and analysis shall be as given in Table 1.

III. MODIFICATION OF PART "A" DATED JANUARY 1978

A. Does not include the following paragraphs of Part A:

E.2.b., F.1, F.3.g.(2)

B. Includes the following modifications of Part A:

1. Paragraph C.5.c shall apply to the Basins with the following addition:

"(3) Special attention shall be paid to observations for vector nuisance and signs of waterfowl botulism per Marsh Management Plan."

2.a Paragraph F:

Upon prior approval of the Executive Officer the producer and discharger may file seperate Self-Monitoring Reports detailing compliance with the Order. A copy of all Marsh Monitoring reports shall also be sent to the State Department of Health Services, Sanitary Engineering Branch, 2151 Berkeley Way, Berkeley, CA 94704 (Attn: J. Fontaine).

b. Paragraph F.4: Annual Reporting (additional information requested) the Annual Report narrative (and data as appropriate) should stress the operations of the Marsh to meet with water quality objectives, enhance beneficial uses of reclaimed wastewater, protection of off site beneficial uses, and the net environmental benefits.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 83-5.

2. Is effective of the date shown below.

3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachments:
Table I
Sketch

Effective Date ____________________

TABLE I (continued)
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	A-1		E-1		E-2		C-etc		C-R		L		
TYPE OF SAMPLE			C-24	G	G	O	G	O	G	O			
Mercury (mg/l & kg/day)													
Nickel (mg/l & kg/day)													
Zinc (mg/l & kg/day)													
PHENOLIC COMPOUNDS (mg/l & kg/day)													
All Applicable Standard Observations				D		W		W		W	W		
Bottom Sediment Analyses and Observations													
Total Identifiable Chlorinated Hydrocarbons (mg/l & kg/day)													
Un-ionized Ammonia (mg/l)							W						

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
C-24 = composite sample - 24-hour
C-X = composite sample - X hours (used when discharge does not continue for 24-hour period)
Cont = continuous sampling
DI = depth-integrated sample
BS = bottom sediment sample
O = observation

TYPES OF STATIONS

I = intake and/or water supply stations
A = treatment facility influent stations
E = waste effluent stations
C = receiving water stations
P = treatment facilities perimeter stations
L = basin and/or pond levee stations
B = bottom sediment stations
G = groundwater stations

FREQUENCY OF SAMPLING

E = each occurence
H = once each hour
D = once each day
W = once each week
M = once each month
Y = once each year

2/H = twice per hour
2/W = 2 days per week
5/W = 5 days per week
2/M = 2 days per month
2/Y = once in March and once in September
Q = quarterly, once in March, June, Sept. and December

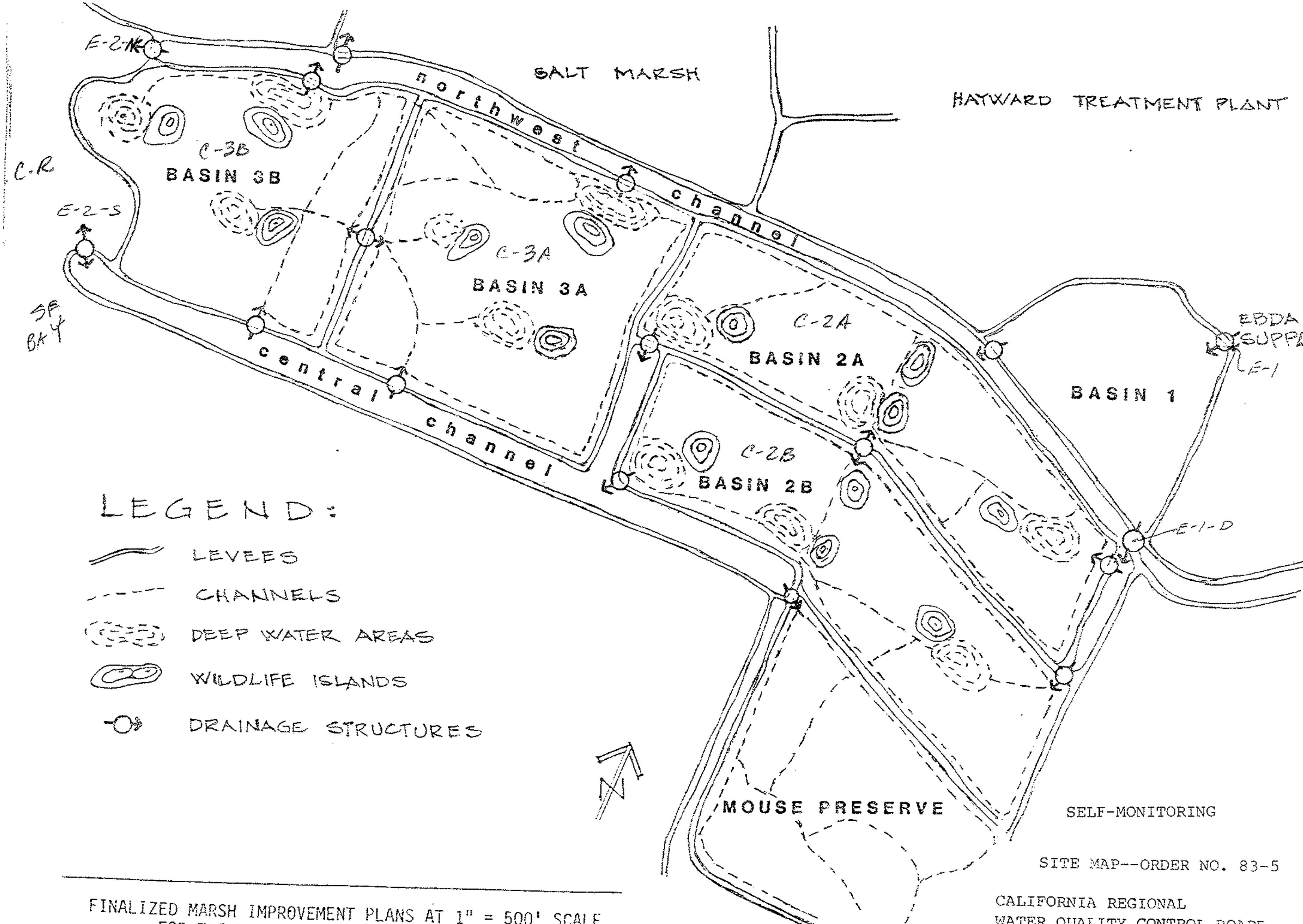
2H = every 2 hours
2D = every 2 days
2W = every 2 weeks
3M = every 3 months
Cont = continuous

Notes: 1. "Live Car" may be used in place of static or flow through bioassay upon submittal of proposed methodology and written approval of Executice Officer.

2. Total coliform shall be taken at the outlet of 2A or 2B only.

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	A-1		E-1 & E-1-D		E-2		C-2A, C-2B, C-3A, C-3B		C-R		L		
TYPE OF SAMPLE	C-24	G	C-24	G	G	O	G	0	G	O	O		
Flow Rate (mgd)			D										
BOD, 5-day, 20^{o} C, or COD (mg/l & kg/day)	5/W		5/W										
Chlorine Residual & Dosage (mg/l & kg/day)				D									
Settleable Matter (ml/1-hr. & cu. ft./day)				D									
Total Suspended Matter (mg/l & kg/day)	5/W		5/W										
Oil & Grease (mg/l & kg/day)			2/M										
Coliform (Total (MPN/100 ml) per req't				3/W	W		W[2]						
Fish Toxicity, 96-hr. TL_{50} % Survival in undiluted waste				M[1]									
Ammonia Nitrogen (mg/l & kg/day)													
Nitrate Nitrogen (mg/l & kg/day)													
Nitrite Nitrogen (mg/l & kg/day)													
Total Organic Nitrogen (mg/l & kg/day)													
Total Phosphate (mg/l & kg/day)													
Turbidity (Jackson Turbidity Units)					W				W				
pH (units)				D			W		W				
Dissolved Oxygen (mg/l and % Saturation)							W		W				
Temperature (^{o}C)													
Apparent Color (color units)													
Secchi Disc (inches)													
Sulfides (if DO < 5.0 mg/l) Total & Dissolved (mg/l)							W						
Arsenic (mg/l & kg/day)													
Cadmium (mg/l & kg/day)													
Chromium, Total (mg/l & kg/day)													
Copper (mg/l & kg/day)													
Cyanide (mg/l & kg/day)													
Silver (mg/l & kg/day													
Lead (mg/l & kg/day)													



FINALIZED MARSH IMPROVEMENT PLANS AT 1" = 500' SCALE
FOR THE HAYWARD MARSH EXPANSION PROJECT

SELF-MONITORING

SITE MAP--ORDER NO. 83-5

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